

AMENDMENTS TO THE CLAIMS

Claim 1 (original): A data driver of a display forming an image frame by sequentially scanning horizontal lines, the data driver comprising:

a shift register receiving image data of three primary colors in serial and outputting the image data of the three primary colors in parallel within each of scan durations of the horizontal lines;

a sample and hold register acquiring the image data from the shift register;

a gamma multiplexer outputting gamma reference voltages for the three primary colors in a sequence of the primary colors within each of the scan durations of the horizontal lines;

three digital-to-analog converters for gamma calibration, receiving the image data of the three primary colors from the sample and hold register and the gamma reference voltages for the three primary colors from the gamma multiplexer, and outputting calibrated image signals of the three primary colors, respectively; and

three buffers respectively receiving the calibrated image signals of the three primary colors from the three digital-to-analog converters, in the sequence of the primary colors.

Claim 2 (original): A data driver of a display forming an image frame by sequentially scanning horizontal lines, the data driver comprising:

a shift register receiving image data of three primary colors in serial and outputting the image data of the three primary colors in parallel within each of scan durations of the horizontal lines;

a sample and hold register acquiring the image data of the three primary colors from the shift register;

a first multiplexer receiving the image data of the three primary colors from the sample and hold register and outputting them in a sequence of the primary colors within each of the scan durations of the horizontal lines;

a second multiplexer outputting gamma reference voltages for the three primary colors in the sequence of the primary colors within each of the scan durations of the horizontal lines;

a digital-to-analog converter for gamma calibration, receiving the image data from the first multiplexer and the gamma reference voltages from the second multiplexer, and outputting calibrated image signals of the three primary colors; and

a buffer receiving the calibrated image signals from the digital-to-analog converter and outputting the calibrated image signals in the sequence of the primary colors.

Claim 3 (cancelled)

Claim 4 (cancelled)